

Work Order ID 126525***126525***

Page 1

Wednesday, November 12, 2014 10:37:58 A

Item ID: D3651-5

Accept

N900040100

Setup Start

NS1

Revision ID:

Item Name: Top Flange

Stop

NS2Start Date: 11/12/2014 Start Qty: 4.00***4***

Cust Item ID:

Required Date: 11/12/2014 Req'd Qty: 4.00

4

Customer:

Reference:

Approvals:

Process Plan: MUSDate: 14-11-12

Tooling: _____ Date: _____

Run Start

NR1

QC: _____

Date: _____ SPC (Y/N): _____

Date: _____

Stop

NR2

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|--------------------------------|---|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
| Draw Nbr | Revision Nbr | | | | | | | | |
| 100 | | 0.00 | | | | | | | |
| *100* Waterjet | FLOW WATER JET | | | | | | | | |
| FLOW CNC Waterjet | Memo | 0.00 | | | | | | | |
| | 1-Cut as per Dwg D3651 | | | | | | | | |
| | Dwg Rev: <u>B</u> | | | | | | | | |
| | Prog Rev: <u>B</u> | | | | | | | | |
| | 2-Deburr if necessary | | | | | | | | |
| 110 | QC2- Inspect parts off machine FAI/FAIB | 0.00 | | | | | | | |
| *110* QC | Memo | 0.00 | | | | | | | |
| Quality Control | | | | | | | | | |
| 120 | QC8- Inspect parts - second check | 0.00 | | | | | | | |
| *120* QC | Memo | 0.00 | | | | | | | |
| Quality Control | | | | | | | | | |

DAS
38
9-89

NOV 13 2014

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____

Date: _____

Work Order update only

| | |
|-------------|-------|
| Work Order: | _____ |
| Part No. | _____ |
| NCR No. | _____ |

DISPOSITION

Rework
 Scrap
 Use-as-is
 Suspected Unapproved

AGAINST DEPARTMENT/PROCESS

| | | | |
|--|------------------------------------|--|--------------------------------------|
| Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> |
| Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coor. <input type="checkbox"/> | Quality <input type="checkbox"/> |
| Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> |
| Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | |

| Root Cause | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Design | | | | | | | | | |
| Doc/Data | | | | | | | | | |
| Equip/Tooling | | | | | | | | | |
| Handling/Pre | | | | | | | | | |
| Material | | | | | | | | | |
| Operator | | | | | | | | | |
| Offset/Setup | | | | | | | | | |
| Process | | | | | | | | | |
| Supplier | | | | | | | | | |
| Training | | | | | | | | | |
| Transport | | | | | | | | | |
| Unapproved | | | | | | | | | |

FAULT CATEGORY

| Landing Gear | General | | | |
|---|---|--|---|---|
| Bending <input type="checkbox"/> | Bend <input type="checkbox"/> | Folio/Program <input type="checkbox"/> | Outside Dimensions <input type="checkbox"/> | Pressure/Forced <input type="checkbox"/> |
| Centre Not Concentric <input type="checkbox"/> | BOM/Route <input type="checkbox"/> | Grain <input type="checkbox"/> | Over/Under tolerance <input type="checkbox"/> | Set-up <input type="checkbox"/> |
| Cracks <input type="checkbox"/> | Broken/Damage/Defect <input type="checkbox"/> | Hardware <input type="checkbox"/> | Part Incorrect <input type="checkbox"/> | Temperature/Cure <input type="checkbox"/> |
| Crimp/Kink/Ripple/Wave <input type="checkbox"/> | Burrs <input type="checkbox"/> | Inspection Incomplete/Unqualified <input type="checkbox"/> | Part Lost/Missing <input type="checkbox"/> | Weld <input type="checkbox"/> |
| Cuffs <input type="checkbox"/> | Contamination <input type="checkbox"/> | Instructions Incomplete/Unclear <input type="checkbox"/> | Part Moved <input type="checkbox"/> | Wrong Stock Pulled <input type="checkbox"/> |
| Crushing <input type="checkbox"/> | Countersink <input type="checkbox"/> | Misaligned/off center <input type="checkbox"/> | Positioned Wrong <input type="checkbox"/> | |
| Heat Treat <input type="checkbox"/> | Cut Too Short <input type="checkbox"/> | Mislabeled <input type="checkbox"/> | Power Loss/Surge <input type="checkbox"/> | |
| Inspection Strip in Tube <input type="checkbox"/> | Drawing <input type="checkbox"/> | Misread <input type="checkbox"/> | | |
| Marks/Chatter <input type="checkbox"/> | Drill Holes <input type="checkbox"/> | Off-set <input type="checkbox"/> | | |
| Turning Sequence <input type="checkbox"/> | Finish <input type="checkbox"/> | Out of Calibration <input type="checkbox"/> | | |
| Wave/Twist in Tube <input type="checkbox"/> | Fit/Function <input type="checkbox"/> | Out of Sequence <input type="checkbox"/> | | |

Work Order ID 126525***126525***

Page 2

Wednesday, November 12, 2014 10:37:58 A

Item ID: D3651-5

Accept

N900040100

Setup

Start

NS1

Revision ID:

Item Name: Top Flange

Stop

NS2

Start Date: 11/12/2014 Start Qty: 4.00

4

Cust Item ID:

Required Date: 11/12/2014 Req'd Qty: 4.00

4

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2Sequence ID/
Work Center IDOperation
Description160
160
Brake NCForm as per dwg
NC BRAKE

Brake NC

170
170
QC

QC5- Inspect part completeness to step on W/O

Quality Control

180
180
PackagingIdentify as per dwg & Stock Location: W/A 001

Memo

Set Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

0.00

DAS
30
9-89

6

14/11/18

0.00

0.00

(6)

DAS
30
9-89

NOV 18 2014

0.00

6 01 14/11/26

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____

Date: _____

Work Order update only

| | | | | | | | |
|-------------------|---|--|------------------------------------|--|--------------------------------------|--|--|
| Work Order: _____ | DISPOSITION | AGAINST DEPARTMENT/PROCESS | | | | | |
| Part No. _____ | Rework <input type="checkbox"/> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | | |
| NCR No. _____ | Scrap <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coor. <input type="checkbox"/> | Quality <input type="checkbox"/> | | |
| | Use-as-is <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | | |
| | Suspected Unapproved <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | | | |

| Root Cause | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Design | | | | | | | | | |
| Doc/Data | | | | | | | | | |
| Equip/Tooling | | | | | | | | | |
| Handling/Pre | | | | | | | | | |
| Material | | | | | | | | | |
| Operator | | | | | | | | | |
| Offset/Setup | | | | | | | | | |
| Process | | | | | | | | | |
| Supplier | | | | | | | | | |
| Training | | | | | | | | | |
| Transport | | | | | | | | | |
| Unapproved | | | | | | | | | |

FAULT CATEGORY

| Landing Gear | General | | |
|--------------------------|---|--|---|
| Bending | Bend <input type="checkbox"/> | Folio/Program <input type="checkbox"/> | Outside Dimensions <input type="checkbox"/> |
| Centre Not Concentric | BOM/Route <input type="checkbox"/> | Grain <input type="checkbox"/> | Over/Under tolerance <input type="checkbox"/> |
| Cracks | Broken/Damage/Defect <input type="checkbox"/> | Hardware <input type="checkbox"/> | Part Incorrect <input type="checkbox"/> |
| Crimp/Kink/Ripple/Wave | Burrs <input type="checkbox"/> | Inspection Incomplete/Unqualified <input type="checkbox"/> | Part Lost/Missing <input type="checkbox"/> |
| Cuffs | Contamination <input type="checkbox"/> | Instructions Incomplete/Unclear <input type="checkbox"/> | Part Moved <input type="checkbox"/> |
| Crushing | Countersink <input type="checkbox"/> | Misaligned/off center <input type="checkbox"/> | Positioned Wrong <input type="checkbox"/> |
| Heat Treat | Cut Too Short <input type="checkbox"/> | Mislabeled <input type="checkbox"/> | Power Loss/Surge <input type="checkbox"/> |
| Inspection Strip in Tube | Drawing <input type="checkbox"/> | Misread <input type="checkbox"/> | Pressure/Forced Set-up <input type="checkbox"/> |
| Marks/Chatter | Drill Holes <input type="checkbox"/> | Off-set <input type="checkbox"/> | Temperature/Cure <input type="checkbox"/> |
| Turning Sequence | Finish <input type="checkbox"/> | Out of Calibration <input type="checkbox"/> | Weld <input type="checkbox"/> |
| Wave/Twist in Tube | Fit/Function <input type="checkbox"/> | Out of Sequence <input type="checkbox"/> | Wrong Stock Pulled <input type="checkbox"/> |
| | | | Other <input type="checkbox"/> |
| | | | |
| | | | |
| | | | |
| | | | |

Work Order ID 126525

126525

Page 3

Wednesday, November 12, 2014 10:37:58 A

Item ID: D3651-5

Accept

N900040100

Setup

Start

NS1

Revision ID:

Item Name: Top Flange

Stop

NS2

Start Date: 11/12/2014 **Start Qty:** 4.00

4

Cust Item ID:

Required Date: 11/12/2014 **Req'd Qty:** 4.00

4

Customer:

Reference:

Approvals:

Process Plan: _____

Date: _____

Tooling: _____

Date: _____

Run

Start

NR1

QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Stop

NR2

**Sequence ID/
Work Center ID**

**Operation
Description**

190

QC21- Final Inspection - Work Order Release

**Set Up/
Run Hours**

Tool ID

Tool #

**Plan
Code**

**Accept
Qty**

**Reject
Qty**

**Reject
Number**

**Insp.
Stamp**

190

QC

Quality Control

Memo

0.00

0.00

14/12/2014

ATT-11-27

DQA: _____ Date: _____

Date



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only

Picklist Print

Wednesday, November 12, 2014 10:38:03 AM

Page 1

Work Order ID: 126525

126525

Parent Item: D3651-5

D3651-5

Parent Item Name: Top Flange

Start Date: 11/12/2014

Required Date: 11/12/2014

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP RevA 10.11.04 as per revB DD verf:EC

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
| M304S26GA | | Purchased | No | | | 100 | sf | 260.2272 | 0.3 | 2 | | | ** |

M304S26GA

304/316 0.018 SHEET

| Location | Loc Qty | Loc Code |
|----------|----------|----------|
| MAT020 | 260.2272 | |
| 122753 | 26 | |
| 123135 | 54.689 | |
| m130650 | 179.5382 | 2.125 |

Dec 14 / 11 / 12

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only

| | | | | | | | | |
|-------------------|---|--|------------------------------------|--|--------------------------------------|--|--|--|
| Work Order: _____ | DISPOSITION | | | AGAINST DEPARTMENT/PROCESS | | | | |
| Part No. _____ | Rework <input type="checkbox"/> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | | | |
| NCR No. _____ | Scrap <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coor. <input type="checkbox"/> | Quality <input type="checkbox"/> | | | |
| | Use-as-is <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | | | |
| | Suspected Unapproved <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | | | | |

| Root Cause | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Design | | | | | | | | | |
| Doc/Data | | | | | | | | | |
| Equip/Tooling | | | | | | | | | |
| Handling/Pre | | | | | | | | | |
| Material | | | | | | | | | |
| Operator | | | | | | | | | |
| Offset/Setup | | | | | | | | | |
| Process | | | | | | | | | |
| Supplier | | | | | | | | | |
| Training | | | | | | | | | |
| Transport | | | | | | | | | |
| Unapproved | | | | | | | | | |

FAULT CATEGORY

| Landing Gear | General | | | |
|--------------------------|----------------------|--------------------------|----------------------|--------------------------|
| Bending | Bend | <input type="checkbox"/> | Outside Dimensions | <input type="checkbox"/> |
| Centre Not Concentric | BOM/Route | <input type="checkbox"/> | Over/Under tolerance | <input type="checkbox"/> |
| Cracks | Broken/Damage/Defect | <input type="checkbox"/> | Part Incorrect | <input type="checkbox"/> |
| Crimp/Kink/Ripple/Wave | Burrs | <input type="checkbox"/> | Part Lost/Missing | <input type="checkbox"/> |
| Cuffs | Contamination | <input type="checkbox"/> | Part Moved | <input type="checkbox"/> |
| Crushing | Countersink | <input type="checkbox"/> | Positioned Wrong | <input type="checkbox"/> |
| Heat Treat | Cut Too Short | <input type="checkbox"/> | Power Loss/Surge | <input type="checkbox"/> |
| Inspection Strip in Tube | Drawing | <input type="checkbox"/> | Other | <input type="checkbox"/> |
| Marks/Chatter | Drill Holes | <input type="checkbox"/> | | |
| Turning Sequence | Finish | <input type="checkbox"/> | | |
| Wave/Twist in Tube | Fit/Function | <input type="checkbox"/> | | |

| | | |
|-------------------------|--------------|-------------|
| DART AEROSPACE LTD | Work Order: | 126525 |
| Description: Top Flange | Part Number: | D3651-5 |
| Inspection Dwg: D3651 | Rev: B | Page 1 of 1 |

FIRST ARTICLE INSPECTION CHECKLIST

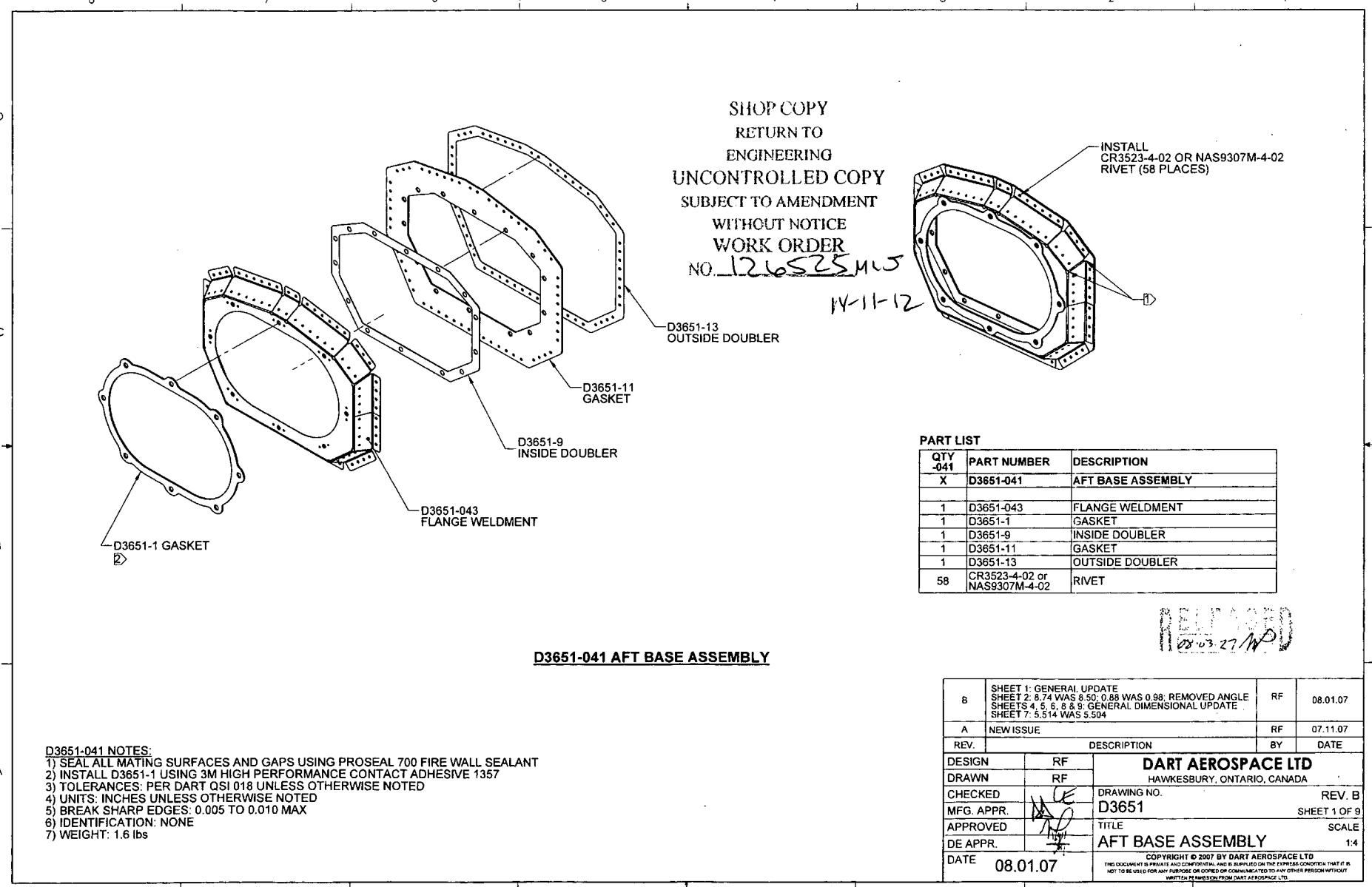
X First Article Prototype

- 5 -

| | | | | | |
|--------------|-----------------|-------------|--------------------------|---------------------|-----|
| Measured by: | <u>D</u> | Audited by: | <u>38</u> <u>0.89</u> | Prototype Approval: | N/A |
| Date: | <u>14/11/12</u> | Date: | <u>NOV 13 2014</u> | Date: | N/A |

| Rev | Date | Change | Revised by | Approved |
|------------|-------------|---------------|-------------------|-----------------|
| A | 08.10.07 | New Issue | P/O D3651-043 | KJ/DD |





DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed:

Date:

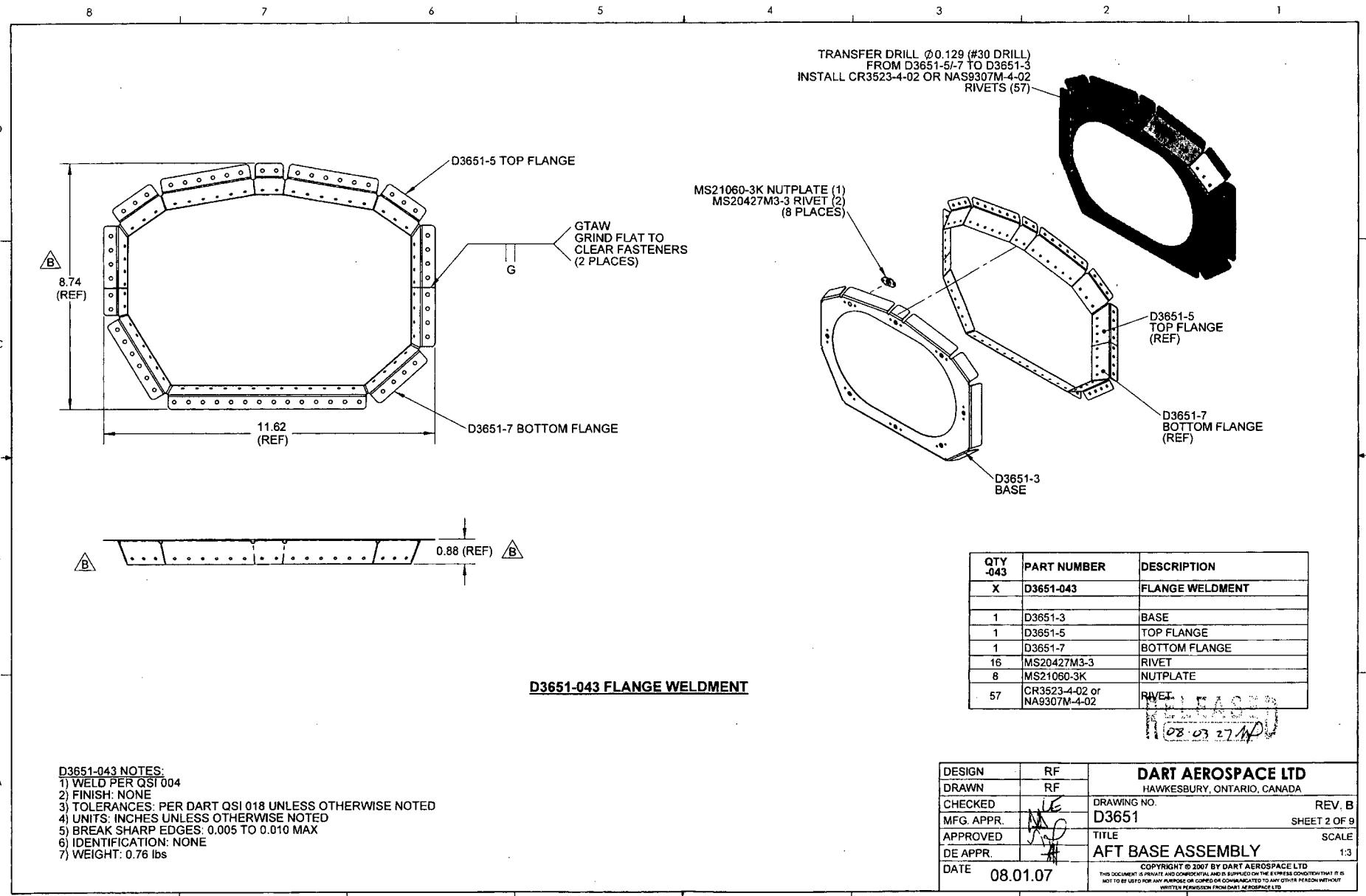
Work Order update only

| | | | | | | | |
|-------------------|--|--|--|--|--|--|--|
| Work Order: _____ | DISPOSITION | AGAINST DEPARTMENT/PROCESS | | | | | |
| Part No. _____ | Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/> | Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> | Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> | Water Jet <input type="checkbox"/> Prod. Eng. Coor. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> | Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> | | |
| NCR No. _____ | | | | | | | |

| Root Cause | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Design | | | | | | | | | |
| Doc/Data | | | | | | | | | |
| Equip/Tooling | | | | | | | | | |
| Handling/Pre | | | | | | | | | |
| Material | | | | | | | | | |
| Operator | | | | | | | | | |
| Offset/Setup | | | | | | | | | |
| Process | | | | | | | | | |
| Supplier | | | | | | | | | |
| Training | | | | | | | | | |
| Transport | | | | | | | | | |
| Unapproved | | | | | | | | | |

FAULT CATEGORY

| Landing Gear | General | | | |
|--------------------------|-----------------------------------|--|--|--|
| Bending | Bend | | | |
| Centre Not Concentric | BOM/Route | | | |
| Cracks | Broken/Damage/Defect | | | |
| Crimp/Kink/Ripple/Wave | Burrs | | | |
| Cuffs | Contamination | | | |
| Crushing | Countersink | | | |
| Heat Treat | Cut Too Short | | | |
| Inspection Strip in Tube | Drawing | | | |
| Marks/Chatter | Drill Holes | | | |
| Turning Sequence | Finish | | | |
| Wave/Twist in Tube | Fit/Function | | | |
| | Folio/Program | | | |
| | Grain | | | |
| | Hardware | | | |
| | Inspection Incomplete/Unqualified | | | |
| | Instructions Incomplete/Unclear | | | |
| | Misaligned/off center | | | |
| | Mislabeled | | | |
| | Misread | | | |
| | Off-set | | | |
| | Out of Calibration | | | |
| | Out of Sequence | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |



DQA: _____ Date: _____

Date:

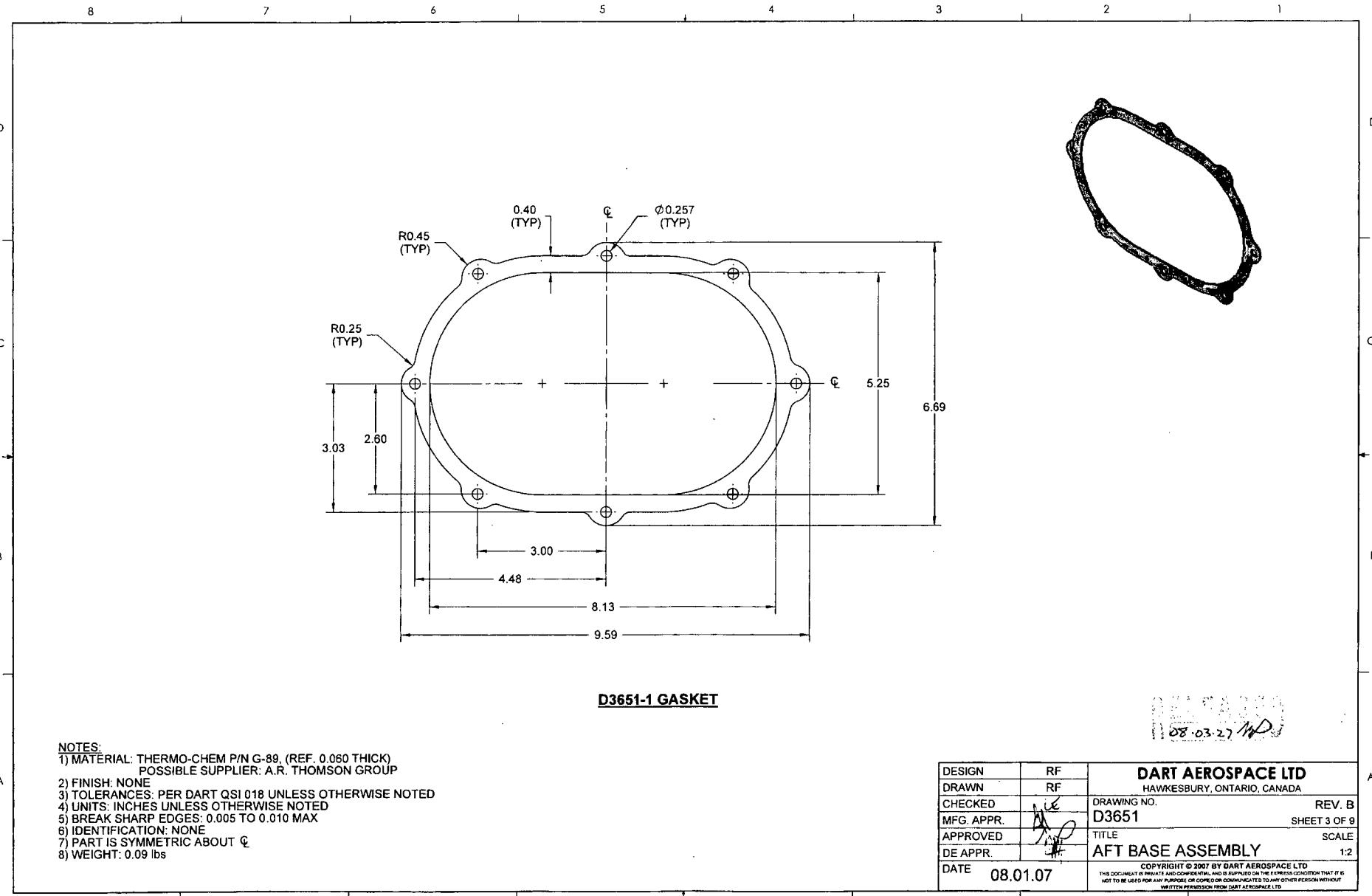


WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only

| Work Order: _____ | | | | DISPOSITION | | AGAINST DEPARTMENT/PROCESS | | | | | |
|--|------|------|-----|--|---|--|--|--------------------------------------|--------------|--|--|
| | | | | Rework <input type="checkbox"/> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | | | |
| | | | | Scrap <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coor. <input type="checkbox"/> | Quality <input type="checkbox"/> | | | |
| | | | | Use-as-is <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | | | |
| NCR No. _____ | | | | Suspected Unapproved <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | | | | |
| Root Cause | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector | | |
| Design | | | | | | | | | | | |
| Doc/Data | | | | | | | | | | | |
| Equip/Tooling | | | | | | | | | | | |
| Handling/Pre | | | | | | | | | | | |
| Material | | | | | | | | | | | |
| Operator | | | | | | | | | | | |
| Offset/Setup | | | | | | | | | | | |
| Process | | | | | | | | | | | |
| Supplier | | | | | | | | | | | |
| Training | | | | | | | | | | | |
| Transport | | | | | | | | | | | |
| Unapproved | | | | | | | | | | | |
| FAULT CATEGORY | | | | | | | | | | | |
| Landing Gear | | | | General | | | | | | | |
| Bending Centre Not Concentric Cracks Crimp/Kink/Ripple/Wave Cuffs Crushing Heat Treat Inspection Strip in Tube Marks/Chatter Turning Sequence Wave/Twist in Tube | | | | Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function <input type="checkbox"/> | Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> | Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> | Pressure/Forced Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> | Other <input type="checkbox"/> | | | |



DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

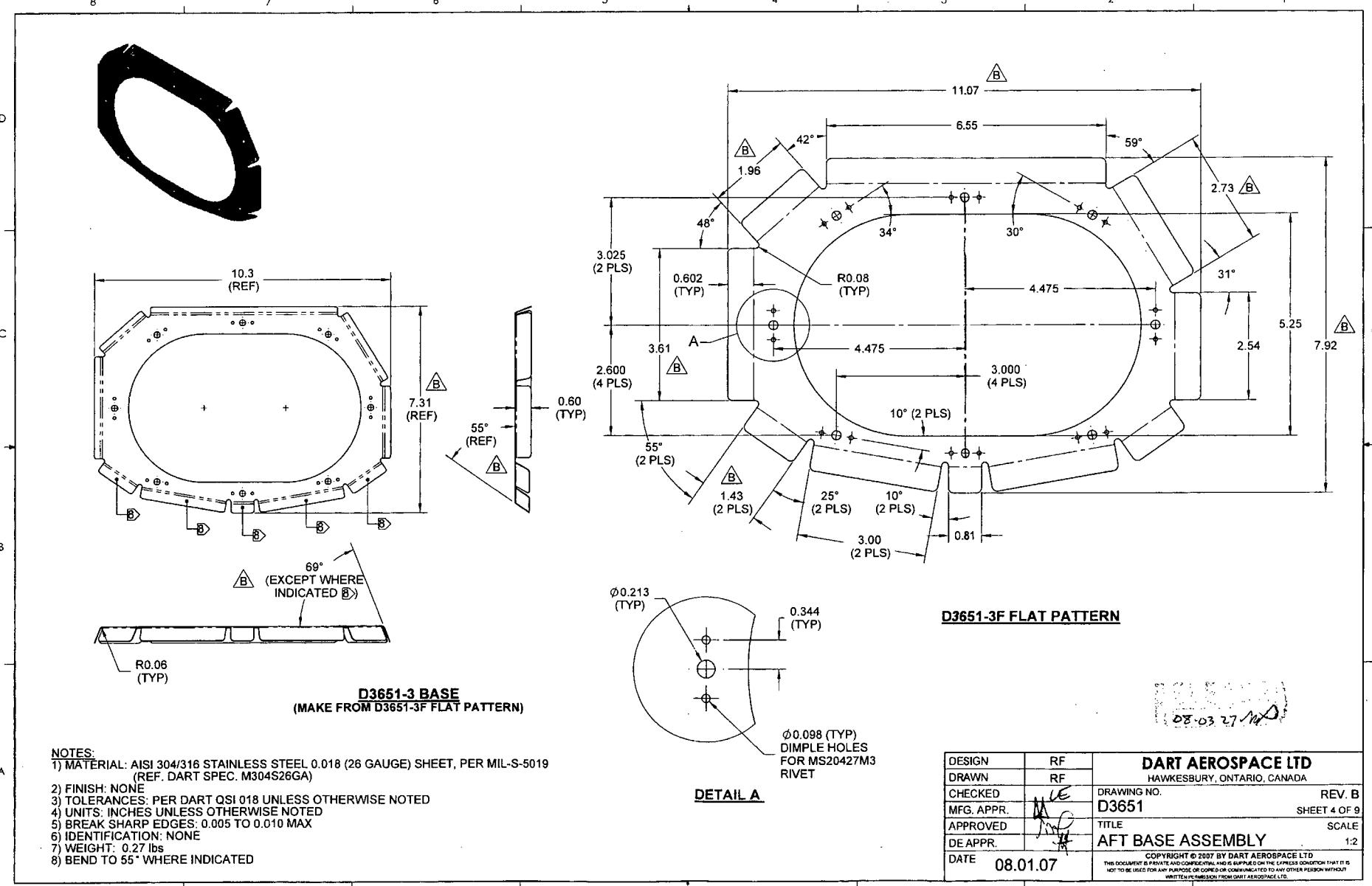
QA Closed: _____ Date: _____

Work Order update only

| | | | | | | | | | |
|-------------------|---|--|------------------------------------|--|--------------------------------------|--|--|--|--|
| Work Order: _____ | DISPOSITION | | | AGAINST DEPARTMENT/PROCESS | | | | | |
| Part No. _____ | Rework <input type="checkbox"/> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | | | | |
| NCR No. _____ | Scrap <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coor. <input type="checkbox"/> | Quality <input type="checkbox"/> | | | | |
| | Use-as-is <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | | | | |
| | Suspected Unapproved <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | | | | | |

| Root Cause | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Design | | | | | | | | | |
| Doc/Data | | | | | | | | | |
| Equip/Tooling | | | | | | | | | |
| Handling/Pre | | | | | | | | | |
| Material | | | | | | | | | |
| Operator | | | | | | | | | |
| Offset/Setup | | | | | | | | | |
| Process | | | | | | | | | |
| Supplier | | | | | | | | | |
| Training | | | | | | | | | |
| Transport | | | | | | | | | |
| Unapproved | | | | | | | | | |

| FAULT CATEGORY | | | | | | | | | |
|---|---|--|---|---|--|--|--|--|--|
| Landing Gear | | | General | | | | | | |
| <input type="checkbox"/> Bending | <input type="checkbox"/> Bend | <input type="checkbox"/> Folio/Program | <input type="checkbox"/> Outside Dimensions | <input type="checkbox"/> Pressure/Forced | | | | | |
| <input type="checkbox"/> Centre Not Concentric | <input type="checkbox"/> BOM/Route | <input type="checkbox"/> Grain | <input type="checkbox"/> Over/Under tolerance | <input type="checkbox"/> Set-up | | | | | |
| <input type="checkbox"/> Cracks | <input type="checkbox"/> Broken/Damage/Defect | <input type="checkbox"/> Hardware | <input type="checkbox"/> Part Incorrect | <input type="checkbox"/> Temperature/Cure | | | | | |
| <input type="checkbox"/> Crimp/Kink/Ripple/Wave | <input type="checkbox"/> Burrs | <input type="checkbox"/> Inspection Incomplete/Unqualified | <input type="checkbox"/> Part Lost/Missing | <input type="checkbox"/> Weld | | | | | |
| <input type="checkbox"/> Cuffs | <input type="checkbox"/> Contamination | <input type="checkbox"/> Instructions Incomplete/Unclear | <input type="checkbox"/> Part Moved | <input type="checkbox"/> Wrong Stock Pulled | | | | | |
| <input type="checkbox"/> Crushing | <input type="checkbox"/> Countersink | <input type="checkbox"/> Misaligned/off center | <input type="checkbox"/> Positioned Wrong | <input type="checkbox"/> Other | | | | | |
| <input type="checkbox"/> Heat Treat | <input type="checkbox"/> Cut Too Short | <input type="checkbox"/> Mislabeled | <input type="checkbox"/> Power Loss/Surge | | | | | | |
| <input type="checkbox"/> Inspection Strip in Tube | <input type="checkbox"/> Drawing | <input type="checkbox"/> Misread | | | | | | | |
| <input type="checkbox"/> Marks/Chatter | <input type="checkbox"/> Drill Holes | <input type="checkbox"/> Off-set | | | | | | | |
| <input type="checkbox"/> Turning Sequence | <input type="checkbox"/> Finish | <input type="checkbox"/> Out of Calibration | | | | | | | |
| <input type="checkbox"/> Wave/Twist in Tube | <input type="checkbox"/> Fit/Function | <input type="checkbox"/> Out of Sequence | | | | | | | |



DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____

Date: _____

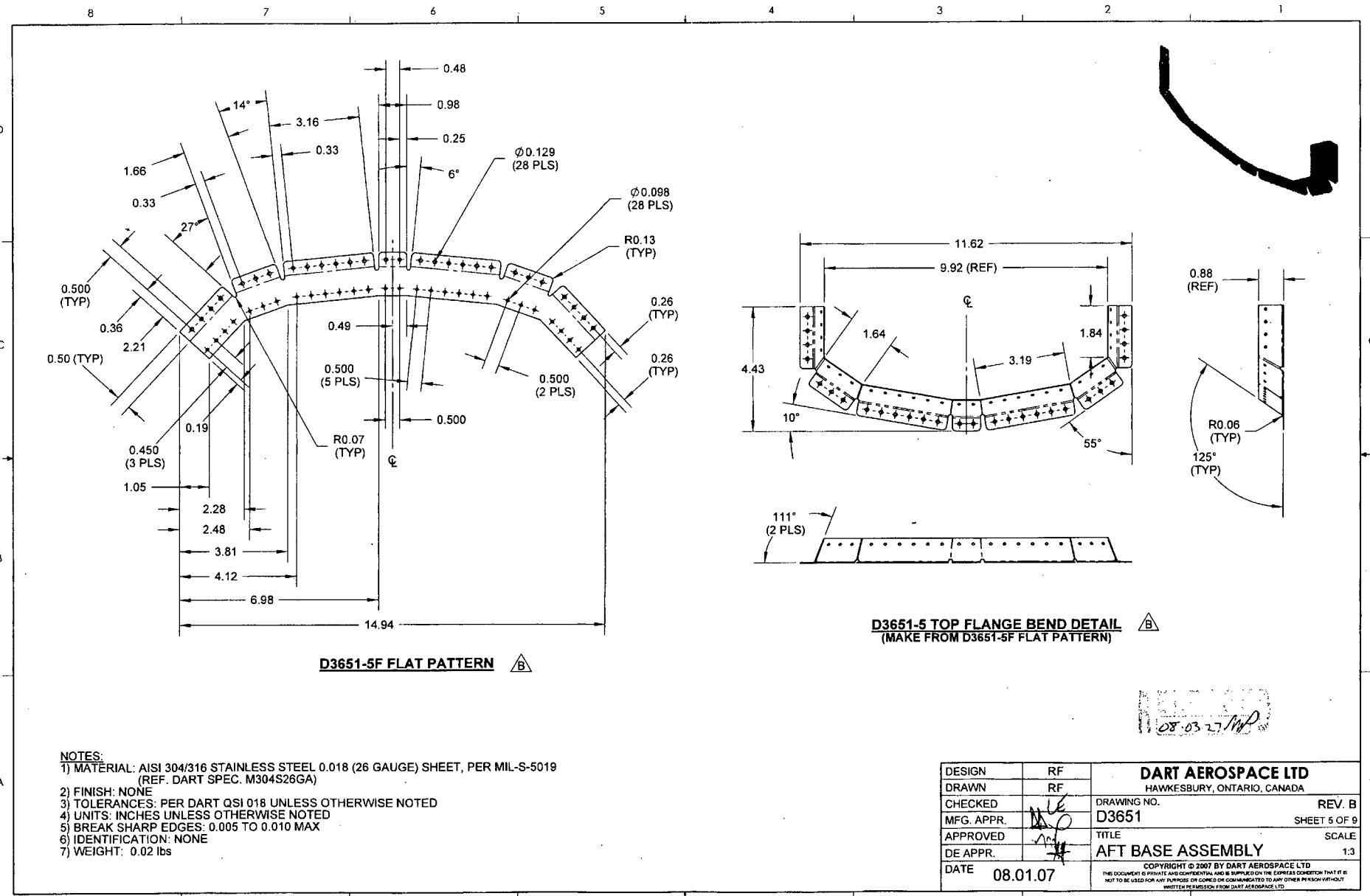
Work Order update only

| | | | | | | | |
|-------------------|---|--|------------------------------------|--|--------------------------------------|--|--|
| Work Order: _____ | DISPOSITION | AGAINST DEPARTMENT/PROCESS | | | | | |
| Part No. _____ | Rework <input type="checkbox"/> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | | |
| NCR No. _____ | Scrap <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coor. <input type="checkbox"/> | Quality <input type="checkbox"/> | | |
| | Use-as-is <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | | |
| | Suspected Unapproved <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | | | |

| Root Cause | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Design | | | | | | | | | |
| Doc/Data | | | | | | | | | |
| Equip/Tooling | | | | | | | | | |
| Handling/Pre | | | | | | | | | |
| Material | | | | | | | | | |
| Operator | | | | | | | | | |
| Offset/Setup | | | | | | | | | |
| Process | | | | | | | | | |
| Supplier | | | | | | | | | |
| Training | | | | | | | | | |
| Transport | | | | | | | | | |
| Unapproved | | | | | | | | | |

FAULT CATEGORY

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|---|--|--|----------------------------------|-------------------------------|--|---|--|------------------------------------|--------------------------------|---|---------------------------------|---|-----------------------------------|---|---|--------------------------------|--|--|--------------------------------|--|--|-------------------------------------|-----------------------------------|--------------------------------------|--|---|-------------------------------------|--|-------------------------------------|---|---|----------------------------------|----------------------------------|--------------------------------|--|--------------------------------------|----------------------------------|--|---|---------------------------------|---|--|---|---------------------------------------|--|--|
| Landing Gear | <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="4" style="text-align: center; font-weight: bold;">General</td></tr> <tr> <td style="width: 25%;"><input type="checkbox"/> Bending</td><td style="width: 25%;"><input type="checkbox"/> Bend</td><td style="width: 25%;"><input type="checkbox"/> Folio/Program</td><td style="width: 25%;"><input type="checkbox"/> Outside Dimensions</td></tr> <tr> <td><input type="checkbox"/> Centre Not Concentric</td><td><input type="checkbox"/> BOM/Route</td><td><input type="checkbox"/> Grain</td><td><input type="checkbox"/> Over/Under tolerance</td></tr> <tr> <td><input type="checkbox"/> Cracks</td><td><input type="checkbox"/> Broken/Damage/Defect</td><td><input type="checkbox"/> Hardware</td><td><input type="checkbox"/> Part Incorrect</td></tr> <tr> <td><input type="checkbox"/> Crimp/Kink/Ripple/Wave</td><td><input type="checkbox"/> Burrs</td><td><input type="checkbox"/> Inspection Incomplete/Unqualified</td><td><input type="checkbox"/> Part Lost/Missing</td></tr> <tr> <td><input type="checkbox"/> Cuffs</td><td><input type="checkbox"/> Contamination</td><td><input type="checkbox"/> Instructions Incomplete/Unclear</td><td><input type="checkbox"/> Part Moved</td></tr> <tr> <td><input type="checkbox"/> Crushing</td><td><input type="checkbox"/> Countersink</td><td><input type="checkbox"/> Misaligned/off center</td><td><input type="checkbox"/> Positioned Wrong</td></tr> <tr> <td><input type="checkbox"/> Heat Treat</td><td><input type="checkbox"/> Cut Too Short</td><td><input type="checkbox"/> Mislabeled</td><td><input type="checkbox"/> Power Loss/Surge</td></tr> <tr> <td><input type="checkbox"/> Inspection Strip in Tube</td><td><input type="checkbox"/> Drawing</td><td><input type="checkbox"/> Misread</td><td><input type="checkbox"/> Other</td></tr> <tr> <td><input type="checkbox"/> Marks/Chatter</td><td><input type="checkbox"/> Drill Holes</td><td><input type="checkbox"/> Off-set</td><td></td></tr> <tr> <td><input type="checkbox"/> Turning Sequence</td><td><input type="checkbox"/> Finish</td><td><input type="checkbox"/> Out of Calibration</td><td></td></tr> <tr> <td><input type="checkbox"/> Wave/Twist in Tube</td><td><input type="checkbox"/> Fit/Function</td><td><input type="checkbox"/> Out of Sequence</td><td></td></tr> </table> | General | | | | <input type="checkbox"/> Bending | <input type="checkbox"/> Bend | <input type="checkbox"/> Folio/Program | <input type="checkbox"/> Outside Dimensions | <input type="checkbox"/> Centre Not Concentric | <input type="checkbox"/> BOM/Route | <input type="checkbox"/> Grain | <input type="checkbox"/> Over/Under tolerance | <input type="checkbox"/> Cracks | <input type="checkbox"/> Broken/Damage/Defect | <input type="checkbox"/> Hardware | <input type="checkbox"/> Part Incorrect | <input type="checkbox"/> Crimp/Kink/Ripple/Wave | <input type="checkbox"/> Burrs | <input type="checkbox"/> Inspection Incomplete/Unqualified | <input type="checkbox"/> Part Lost/Missing | <input type="checkbox"/> Cuffs | <input type="checkbox"/> Contamination | <input type="checkbox"/> Instructions Incomplete/Unclear | <input type="checkbox"/> Part Moved | <input type="checkbox"/> Crushing | <input type="checkbox"/> Countersink | <input type="checkbox"/> Misaligned/off center | <input type="checkbox"/> Positioned Wrong | <input type="checkbox"/> Heat Treat | <input type="checkbox"/> Cut Too Short | <input type="checkbox"/> Mislabeled | <input type="checkbox"/> Power Loss/Surge | <input type="checkbox"/> Inspection Strip in Tube | <input type="checkbox"/> Drawing | <input type="checkbox"/> Misread | <input type="checkbox"/> Other | <input type="checkbox"/> Marks/Chatter | <input type="checkbox"/> Drill Holes | <input type="checkbox"/> Off-set | | <input type="checkbox"/> Turning Sequence | <input type="checkbox"/> Finish | <input type="checkbox"/> Out of Calibration | | <input type="checkbox"/> Wave/Twist in Tube | <input type="checkbox"/> Fit/Function | <input type="checkbox"/> Out of Sequence | |
| General | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Bending | <input type="checkbox"/> Bend | <input type="checkbox"/> Folio/Program | <input type="checkbox"/> Outside Dimensions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Centre Not Concentric | <input type="checkbox"/> BOM/Route | <input type="checkbox"/> Grain | <input type="checkbox"/> Over/Under tolerance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Cracks | <input type="checkbox"/> Broken/Damage/Defect | <input type="checkbox"/> Hardware | <input type="checkbox"/> Part Incorrect | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Crimp/Kink/Ripple/Wave | <input type="checkbox"/> Burrs | <input type="checkbox"/> Inspection Incomplete/Unqualified | <input type="checkbox"/> Part Lost/Missing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Cuffs | <input type="checkbox"/> Contamination | <input type="checkbox"/> Instructions Incomplete/Unclear | <input type="checkbox"/> Part Moved | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Crushing | <input type="checkbox"/> Countersink | <input type="checkbox"/> Misaligned/off center | <input type="checkbox"/> Positioned Wrong | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Heat Treat | <input type="checkbox"/> Cut Too Short | <input type="checkbox"/> Mislabeled | <input type="checkbox"/> Power Loss/Surge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Inspection Strip in Tube | <input type="checkbox"/> Drawing | <input type="checkbox"/> Misread | <input type="checkbox"/> Other | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Marks/Chatter | <input type="checkbox"/> Drill Holes | <input type="checkbox"/> Off-set | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Turning Sequence | <input type="checkbox"/> Finish | <input type="checkbox"/> Out of Calibration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Wave/Twist in Tube | <input type="checkbox"/> Fit/Function | <input type="checkbox"/> Out of Sequence | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____

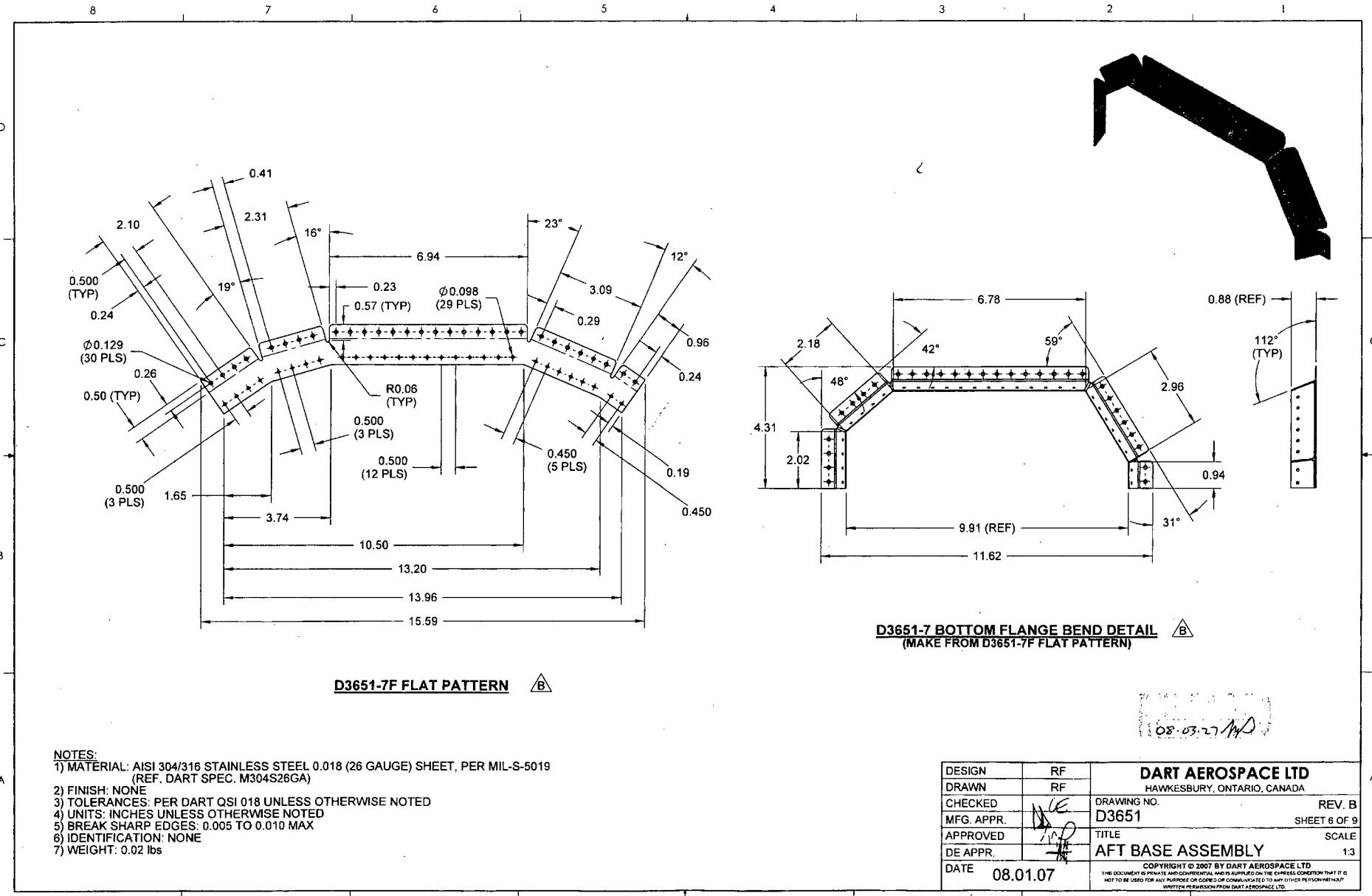
Date: _____

Work Order update only

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|-------------------|---|--|------------------------------------|--|--------------------------------------|--|--|
| Work Order: _____ | DISPOSITION | AGAINST DEPARTMENT/PROCESS | | | | | |
| Part No. _____ | Rework <input type="checkbox"/> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | | |
| NCR No. _____ | Scrap <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coor. <input type="checkbox"/> | Quality <input type="checkbox"/> | | |
| | Use-as-is <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | | |
| | Suspected Unapproved <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | | | |

| Root Cause | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Design | | | | | | | | | |
| Doc/Data | | | | | | | | | |
| Equip/Tooling | | | | | | | | | |
| Handling/Pre | | | | | | | | | |
| Material | | | | | | | | | |
| Operator | | | | | | | | | |
| Offset/Setup | | | | | | | | | |
| Process | | | | | | | | | |
| Supplier | | | | | | | | | |
| Training | | | | | | | | | |
| Transport | | | | | | | | | |
| Unapproved | | | | | | | | | |

| FAULT CATEGORY | | | | | | | | | | |
|--------------------------|--------------------------|----------------------|--------------------------|-----------------------------------|--------------------------|----------------------|--------------------------|--------------------|--------------------------|--|
| Landing Gear | General | | General | | General | | General | | General | |
| Bending | <input type="checkbox"/> | Bend | <input type="checkbox"/> | Folio/Program | <input type="checkbox"/> | Outside Dimensions | <input type="checkbox"/> | Pressure/Forced | <input type="checkbox"/> | |
| Centre Not Concentric | <input type="checkbox"/> | BOM/Route | <input type="checkbox"/> | Grain | <input type="checkbox"/> | Over/Under tolerance | <input type="checkbox"/> | Set-up | <input type="checkbox"/> | |
| Cracks | <input type="checkbox"/> | Broken/Damage/Defect | <input type="checkbox"/> | Hardware | <input type="checkbox"/> | Part Incorrect | <input type="checkbox"/> | Temperature/Cure | <input type="checkbox"/> | |
| Crimp/Kink/Ripple/Wave | <input type="checkbox"/> | Burrs | <input type="checkbox"/> | Inspection Incomplete/Unqualified | <input type="checkbox"/> | Part Lost/Missing | <input type="checkbox"/> | Weld | <input type="checkbox"/> | |
| Cuffs | <input type="checkbox"/> | Contamination | <input type="checkbox"/> | Instructions Incomplete/Unclear | <input type="checkbox"/> | Part Moved | <input type="checkbox"/> | Wrong Stock Pulled | <input type="checkbox"/> | |
| Crushing | <input type="checkbox"/> | Countersink | <input type="checkbox"/> | Misaligned/off center | <input type="checkbox"/> | Positioned Wrong | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Heat Treat | <input type="checkbox"/> | Cut Too Short | <input type="checkbox"/> | Mislabeled | <input type="checkbox"/> | Power Loss/Surge | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Inspection Strip in Tube | <input type="checkbox"/> | Drawing | <input type="checkbox"/> | Misread | <input type="checkbox"/> | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Marks/Chatter | <input type="checkbox"/> | Drill Holes | <input type="checkbox"/> | Off-set | <input type="checkbox"/> | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Turning Sequence | <input type="checkbox"/> | Finish | <input type="checkbox"/> | Out of Calibration | <input type="checkbox"/> | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Wave/Twist in Tube | <input type="checkbox"/> | Fit/Function | <input type="checkbox"/> | Out of Sequence | <input type="checkbox"/> | | <input type="checkbox"/> | | <input type="checkbox"/> | |



DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

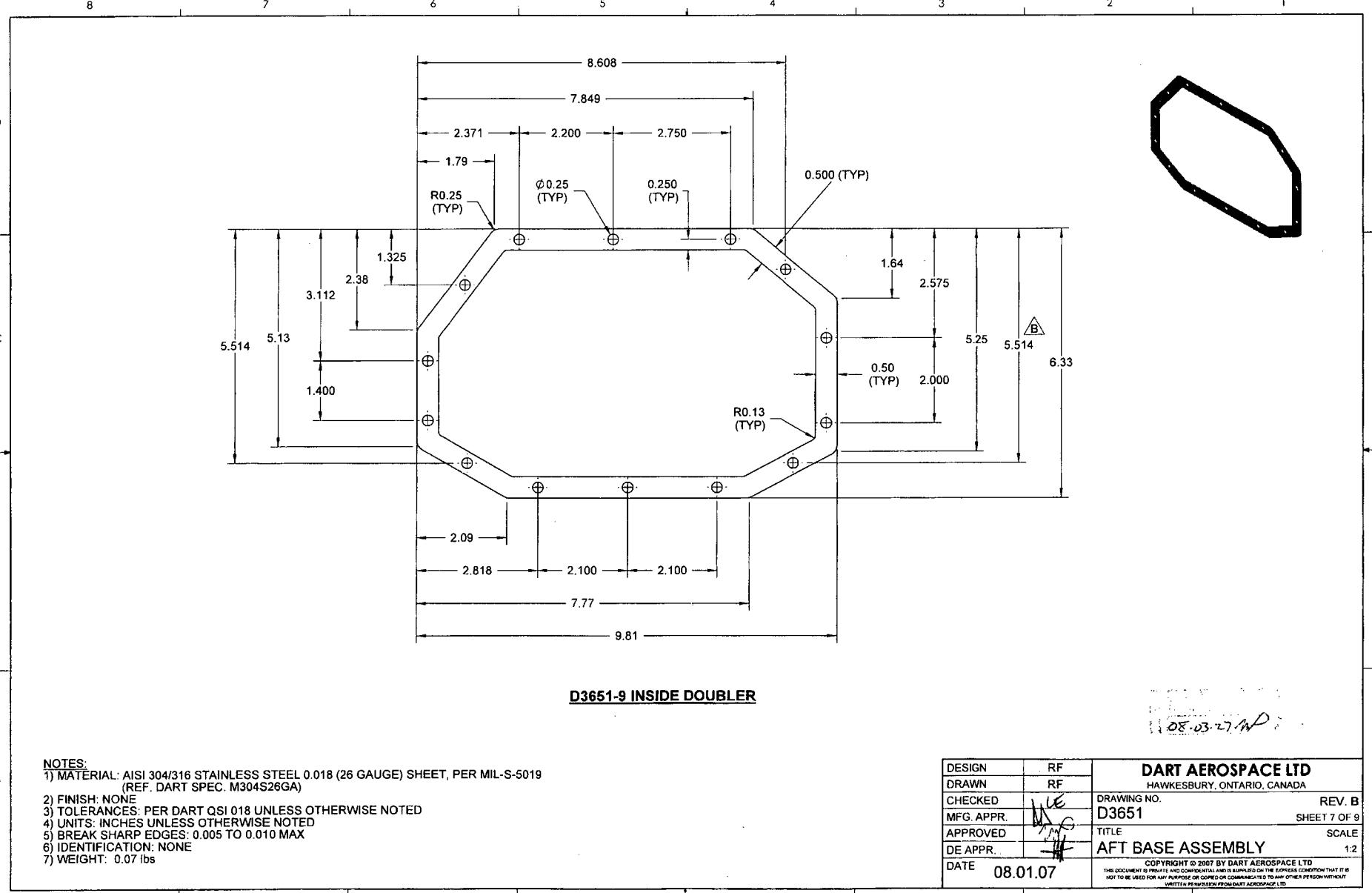
QA Closed: _____ Date: _____

Work Order update only

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|---|--|---|
| <p>Work Order: _____</p> <p>Part No. _____</p> <p>NCR No. _____</p> | DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/> | AGAINST DEPARTMENT/PROCESS Skid-tube <input type="checkbox"/> Crosstube <input type="checkbox"/> Machining <input type="checkbox"/> Small Fab <input type="checkbox"/> Thermoforming <input type="checkbox"/> Finishing <input type="checkbox"/> Large Fab <input type="checkbox"/> Composite <input type="checkbox"/> |
|---|--|---|

| Root Cause | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Design | | | | | | | | | |
| Doc/Data | | | | | | | | | |
| Equip/Tooling | | | | | | | | | |
| Handling/Pre | | | | | | | | | |
| Material | | | | | | | | | |
| Operator | | | | | | | | | |
| Offset/Setup | | | | | | | | | |
| Process | | | | | | | | | |
| Supplier | | | | | | | | | |
| Training | | | | | | | | | |
| Transport | | | | | | | | | |
| Unapproved | | | | | | | | | |

| FAULT CATEGORY | | | | | | | | | |
|--|--|---|--|--|--|--|--|--|--|
| Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube | General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function | <input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence | <input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge | <input type="checkbox"/> Pressure/Forced Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other | | | | | |
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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____

Date: _____

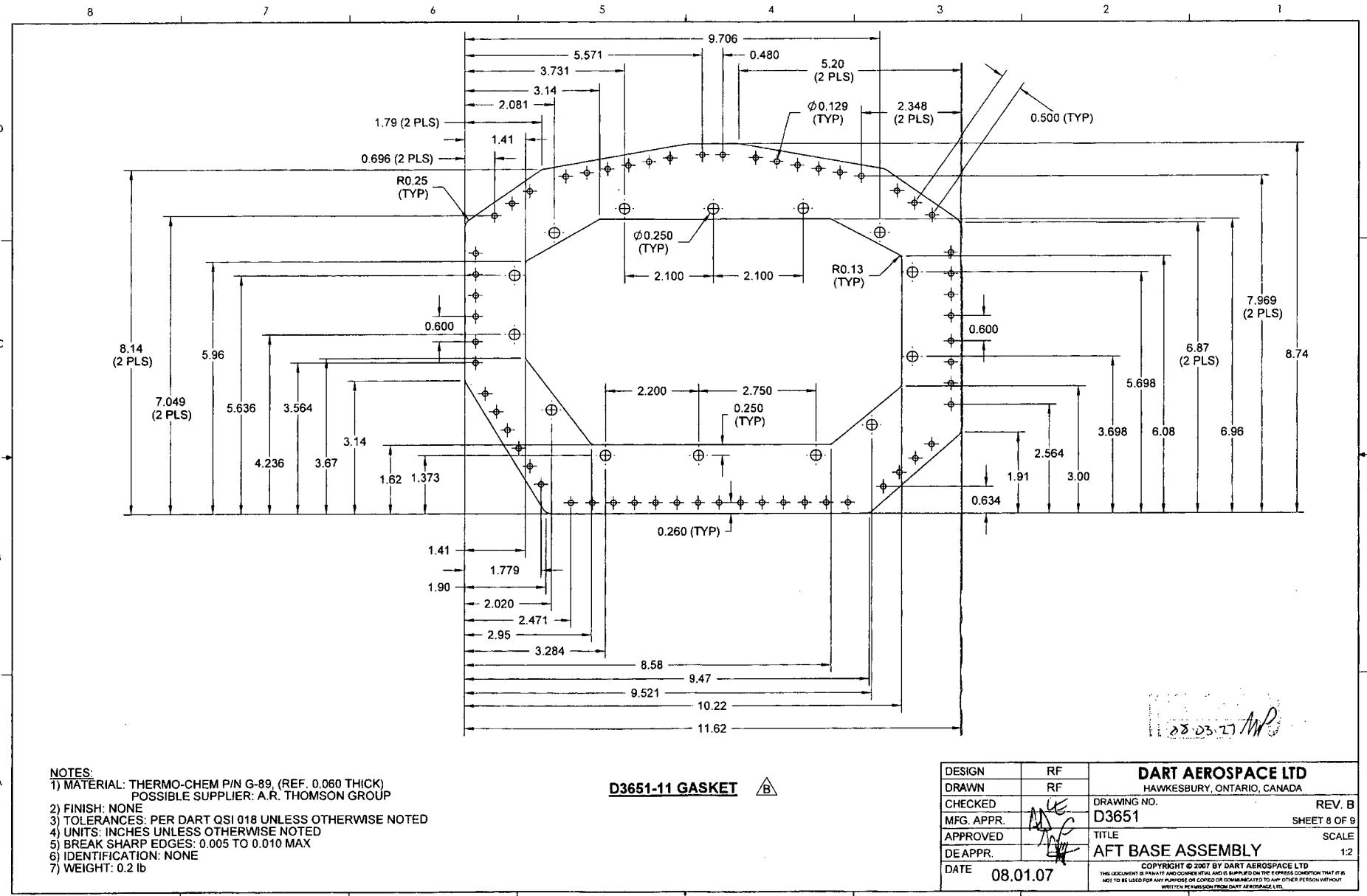
Work Order update only

| | | | | | | | | | |
|-------------------|---|--|------------------------------------|--|--------------------------------------|--|--|--|--|
| Work Order: _____ | DISPOSITION | AGAINST DEPARTMENT/PROCESS | | | | | | | |
| Part No. _____ | Rework <input type="checkbox"/> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | | | | |
| NCR No. _____ | Scrap <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coor. <input type="checkbox"/> | Quality <input type="checkbox"/> | | | | |
| | Use-as-is <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | | | | |
| | Suspected Unapproved <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | | | | | |

| Root Cause | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Design | | | | | | | | | |
| Doc/Data | | | | | | | | | |
| Equip/Tooling | | | | | | | | | |
| Handling/Pre | | | | | | | | | |
| Material | | | | | | | | | |
| Operator | | | | | | | | | |
| Offset/Setup | | | | | | | | | |
| Process | | | | | | | | | |
| Supplier | | | | | | | | | |
| Training | | | | | | | | | |
| Transport | | | | | | | | | |
| Unapproved | | | | | | | | | |

FAULT CATEGORY

| | | | | | |
|--------------|--------------------------|----------------------|-----------------------------------|----------------------|--------------------|
| Landing Gear | Bending | Bend | Folio/Program | Outside Dimensions | Pressure/Forced |
| | Centre Not Concentric | BOM/Route | Grain | Over/Under tolerance | Set-up |
| | Cracks | Broken/Damage/Defect | Hardware | Part Incorrect | Temperature/Cure |
| | Crimp/Kink/Ripple/Wave | Burrs | Inspection Incomplete/Unqualified | Part Lost/Missing | Weld |
| | Cuffs | Contamination | Instructions Incomplete/Unclear | Part Moved | Wrong Stock Pulled |
| | Crushing | Countersink | Misaligned/off center | Positioned Wrong | |
| | Heat Treat | Cut Too Short | Mislabeled | Power Loss/Surge | Other |
| | Inspection Strip in Tube | Drawing | Misread | | |
| | Marks/Chatter | Drill Holes | Off-set | | |
| | Turning Sequence | Finish | Out of Calibration | | |
| | Wave/Twist in Tube | Fit/Function | Out of Sequence | | |



DQA: _____

Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____

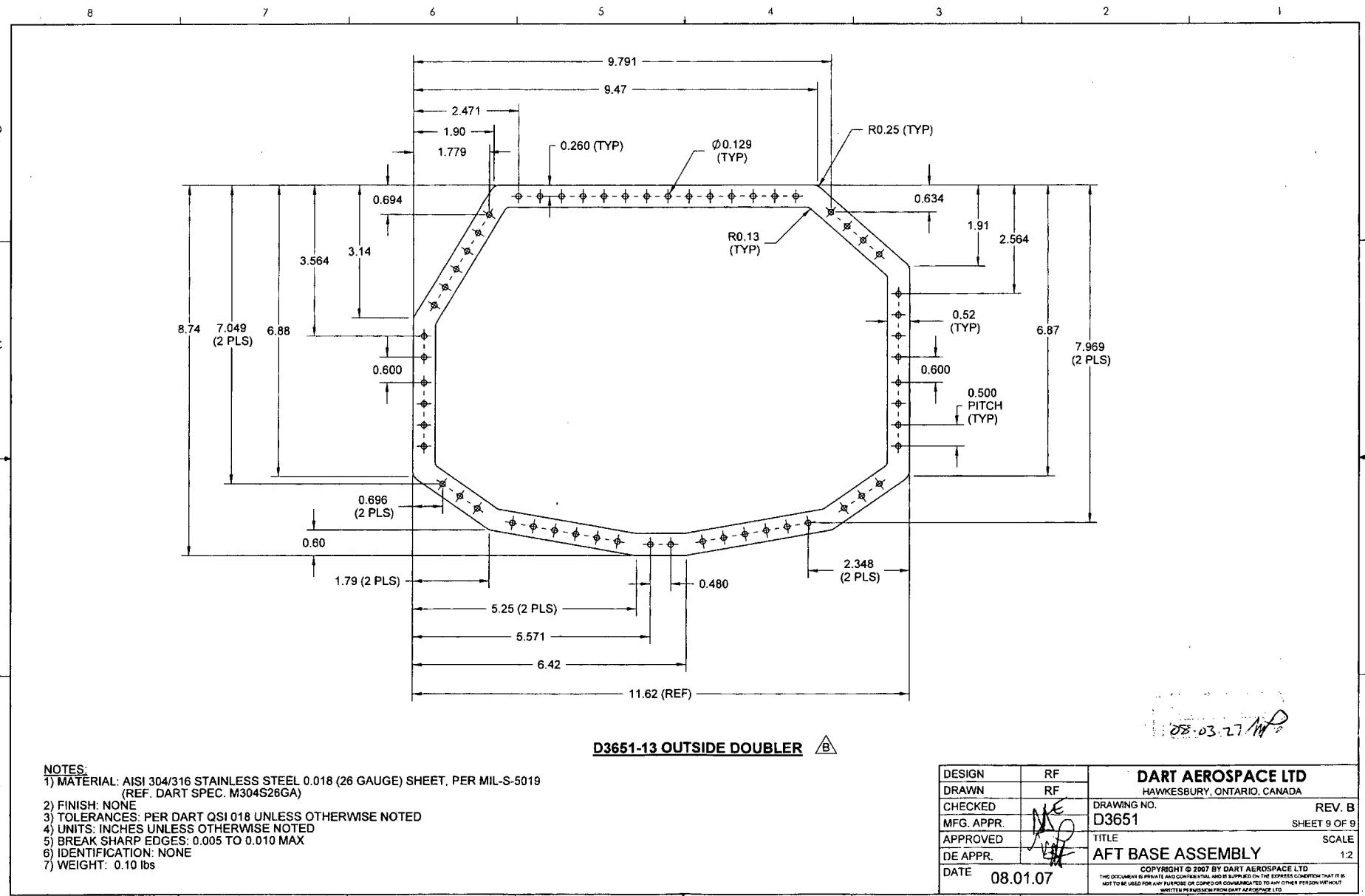
Date: _____

Work Order update only

| | | |
|---|--|---|
| <p>Work Order: _____</p> <p>Part No. _____</p> <p>NCR No. _____</p> | DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/> | AGAINST DEPARTMENT/PROCESS Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> Water Jet <input type="checkbox"/> Prod. Eng. Coor. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> Engineering Quality Other <input type="checkbox"/> |
|---|--|---|

| Root Cause | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Design | | | | | | | | | |
| Doc/Data | | | | | | | | | |
| Equip/Tooling | | | | | | | | | |
| Handling/Pre | | | | | | | | | |
| Material | | | | | | | | | |
| Operator | | | | | | | | | |
| Offset/Setup | | | | | | | | | |
| Process | | | | | | | | | |
| Supplier | | | | | | | | | |
| Training | | | | | | | | | |
| Transport | | | | | | | | | |
| Unapproved | | | | | | | | | |

| FAULT CATEGORY | | | | | | | | | |
|--|--|---|--|--|--------------------------------|--|--|--|--|
| Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube | General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function | <input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence | <input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge | <input type="checkbox"/> Pressure/Forced Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled | <input type="checkbox"/> Other | | | | |
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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____

Date: _____

Work Order update only

| | | | | | | | | | |
|-------------------|---|--|------------------------------------|--|--------------------------------------|--|--|--|--|
| Work Order: _____ | DISPOSITION | | | AGAINST DEPARTMENT/PROCESS | | | | | |
| Part No. _____ | Rework <input type="checkbox"/> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | | | | |
| NCR No. _____ | Scrap <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coor. <input type="checkbox"/> | Quality <input type="checkbox"/> | | | | |
| | Use-as-is <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | | | | |
| | Suspected Unapproved <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | | | | | |

| Root Cause | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Design | | | | | | | | | |
| Doc/Data | | | | | | | | | |
| Equip/Tooling | | | | | | | | | |
| Handling/Pre | | | | | | | | | |
| Material | | | | | | | | | |
| Operator | | | | | | | | | |
| Offset/Setup | | | | | | | | | |
| Process | | | | | | | | | |
| Supplier | | | | | | | | | |
| Training | | | | | | | | | |
| Transport | | | | | | | | | |
| Unapproved | | | | | | | | | |

FAULT CATEGORY

| Landing Gear | General | | | |
|---|---|--|---|---|
| <input type="checkbox"/> Bending | <input type="checkbox"/> Bend | <input type="checkbox"/> Folio/Program | <input type="checkbox"/> Outside Dimensions | <input type="checkbox"/> Pressure/Forced |
| <input type="checkbox"/> Centre Not Concentric | <input type="checkbox"/> BOM/Route | <input type="checkbox"/> Grain | <input type="checkbox"/> Over/Under tolerance | <input type="checkbox"/> Set-up |
| <input type="checkbox"/> Cracks | <input type="checkbox"/> Broken/Damage/Defect | <input type="checkbox"/> Hardware | <input type="checkbox"/> Part Incorrect | <input type="checkbox"/> Temperature/Cure |
| <input type="checkbox"/> Crimp/Kink/Ripple/Wave | <input type="checkbox"/> Burrs | <input type="checkbox"/> Inspection Incomplete/Unqualified | <input type="checkbox"/> Part Lost/Missing | <input type="checkbox"/> Weld |
| <input type="checkbox"/> Cuffs | <input type="checkbox"/> Contamination | <input type="checkbox"/> Instructions Incomplete/Unclear | <input type="checkbox"/> Part Moved | <input type="checkbox"/> Wrong Stock Pulled |
| <input type="checkbox"/> Crushing | <input type="checkbox"/> Countersink | <input type="checkbox"/> Misaligned/off center | <input type="checkbox"/> Positioned Wrong | <input type="checkbox"/> Other |
| <input type="checkbox"/> Heat Treat | <input type="checkbox"/> Cut Too Short | <input type="checkbox"/> Mislabeled | <input type="checkbox"/> Power Loss/Surge | |
| <input type="checkbox"/> Inspection Strip in Tube | <input type="checkbox"/> Drawing | <input type="checkbox"/> Misread | | |
| <input type="checkbox"/> Marks/Chatter | <input type="checkbox"/> Drill Holes | <input type="checkbox"/> Off-set | | |
| <input type="checkbox"/> Turning Sequence | <input type="checkbox"/> Finish | <input type="checkbox"/> Out of Calibration | | |
| <input type="checkbox"/> Wave/Twist in Tube | <input type="checkbox"/> Fit/Function | <input type="checkbox"/> Out of Sequence | | |